

#19

09858332

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/858,332A

DATE: 12/27/2002

TIME: 14:16:41

Input Set : D:\seqlist.txt

Output Set: N:\CRF4\12272002\I858332A.raw

RECEIVED

JAN 06 2003

TECH CENTER 1600/2900

ENTERED

4 <110> APPLICANT: Tchaga, Grigory S.
5 Jokhadze, George
7 <120> TITLE OF INVENTION: Metal Ion Affinity Tags and Methods for
8 Using the Same
11 <130> FILE REFERENCE: CLON-056CIP
13 <140> CURRENT APPLICATION NUMBER: US 09/858,332A
14 <141> CURRENT FILING DATE: 2001-05-15
16 <150> PRIOR APPLICATION NUMBER: 09/404,017
17 <151> PRIOR FILING DATE: 1999-09-23
19 <150> PRIOR APPLICATION NUMBER: 60/101,867
20 <151> PRIOR FILING DATE: 1998-09-25
22 <160> NUMBER OF SEQ ID NOS: 20
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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31 <220> FEATURE:
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50 Asp Asp
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64 1 5 10 15
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 18

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78 Asp Glu
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85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: affinity peptide
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93 Glu Asp
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99 <212> TYPE: PRT
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102 <220> FEATURE:
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107 1
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133 1 5
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137 <211> LENGTH: 10
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence

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155 <223> OTHER INFORMATION: an immunological tag
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159 1 5
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164 <212> TYPE: PRT
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: an immunological tag
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172 1 5 10
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177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: an immunological tag
183 <400> SEQUENCE: 12
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185 1 5 10
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189 <211> LENGTH: 3430
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: DNA sequence of vector containing cDNA of
195 recombinant enterokinase
197 <400> SEQUENCE: 13
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199 cttagacgtc aggtggcact ttctcgggaa atgtgcgcgg aaccctatt tgtttatttt 120
200 tctaaatata ttcaaatatg tatccgctca tgagacaata accctgataa atgcttcaat 180
201 aatattgaaa aaggaagagt atgagtattc aacatttccg tgtcgccctt attccctttt 240
202 ttgcggcatt ttgccttcct gtttttgctc acccagaaac gctggtgaaa gtaaaagatg 300
203 ctgaagatca gttgggtgca cgagtgggtt acatcgaaact ggatctcaac agcggtaaga 360
204 tccttgagag ttttcgcccc gaagaacgtt ttccaatgat gagcactttt aaagttctgc 420
205 tatgtggcgc ggtattatcc cgtattgacg cggggcaaga gcaactcggc cgccgcatac 480
206 actattctca gaatgacttg gttgagtact caccagtcaac agaaaagcat cttacggatg 540

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207 gcatgacagt aagagaatta tgcagtgtcg ccataaccat gaggatgataac actgcggcca 600
208 acttacttct gacaacgatc ggaggaccga aggagctaac cgcttttttg cacaacatgg 660
209 gggatcatgt aactcgcctt gatcgttggg aaccggagct gaatgaagcc ataccaaacg 720
210 acgagcgtga caccacgatg cctgtagcaa tggcaacaac gttgcgcaaa ctattaactg 780
211 gcgaactact tactctagct tcccggcaac aattaataga ctggatggag gcggataaag 840
212 ttgcaggacc acttctgcgc tcggcccttc cggctggctg gtttattgct gataaatctg 900
213 gagccgggtga gcgtgggtct cgcggtatca ttgcagcact ggggccagat ggtaagccct 960
214 cccgtatcgt agttatctac acgacgggga gtcaggcaac tatggatgaa cgaaatagac 1020
215 agatcgctga gataggtgcc tactgatta agcattggta actgtcagac caagtttact 1080
216 catatatact ttatagttgat ttaaaaactt atttttaatt taaaaggatc taggtgaaga 1140
217 tcctttttga taatctcatg accaaaatcc cttaacgtga gttttcgttc cactgagcgt 1200
218 cagaccccggt agaaaagatc aaaggatctt cttgagatcc tttttttctg cgcgtaatct 1260
219 gctgcttgca aacaaaaaaa ccaccgctac cagcgggtgtt ttgtttgccg gatcaagagc 1320
220 taccaactct ttttccgaag gtaactggct tcagcagagc gcagatacca aatactgtcc 1380
221 ttctagtgtg gccgtagtta ggccaccact tcaagaactc tgtagcaccg cctacatacc 1440
222 tcgctctgct aatcctgtta ccagtggctg ctgccagtgg cgataagtcg tgtcttaccg 1500
223 ggttggaact aagacgatag ttaccggata aggcgcagcg gtcgggctga acggggggtt 1560
224 cgtgcacaca gccagcttg gagcgaacga cctacaccga actgagatac ctacagcgtg 1620
225 agctatgaga aagcgcacag ctcccgaag ggagaaaggc ggacaggtat ccggttaagc 1680
226 gbgcagggtc ggaacaggag agcgcacgag ggagcttcca gggggaaacg cctggtatct 1740
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233 caacgcaatt aatgtgagtt agctcactca ttaggcacc caggctttac actttatgct 2160
234 tccggtcgtg atgttggtg gaattgtgag cggataacaa tttcacacag gaaacagcta 2220
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246 tgtgccaaga aaacaacaga tggctcctgg ctggcgtgac gtcatttgga tatcaatgtg 2940
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253 gacaccgcc aacaccgct gagcgccct gacgggcttg tctgctcccg gcatccgctt 3360
254 acagacaagc tgtgaccgtc tccgggagct gcatgtgtca gaggttttca ccgtcatcac 3420
255 cgaaacgcgc
3430

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257 <210> SEQ ID NO: 14
258 <211> LENGTH: 279
259 <212> TYPE: PRT
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: protein sequence of vector containing cDNA of
264 recombinant enterokinase
266 <400> SEQUENCE: 14
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268 1 5 10 15
269 His Lys Glu Glu His Ala His Ala His Asn Lys Ile Asp Ile Val Gly
270 20 25 30
271 Gly Ser Asp Ser Arg Glu Gly Ala Trp Pro Trp Val Val Ala Leu Tyr
272 35 40 45
273 Phe Asp Asp Gln Gln Val Cys Gly Ala Ser Leu Val Ser Arg Asp Trp
274 50 55 60
275 Leu Val Ser Ala Ala His Cys Val Tyr Gly Arg Asn Met Glu Pro Ser
276 65 70 75 80
277 Lys Trp Lys Ala Val Leu Gly Leu His Met Ala Ser Asn Leu Thr Ser
278 85 90 95
279 Pro Gln Ile Glu Thr Arg Leu Ile Asp Gln Ile Val Ile Asn Pro His
280 100 105 110
281 Tyr Asn Lys Arg Arg Lys Asn Asn Asp Ile Ala Met Met His Leu Glu
282 115 120 125
283 Met Lys Val Asn Tyr Thr Asp Tyr Ile Gln Pro Ile Cys Leu Pro Glu
284 130 135 140
285 Glu Asn Gln Val Phe Pro Pro Gly Arg Ile Cys Ser Ile Ala Gly Trp
286 145 150 155 160
287 Gly Ala Leu Ile Tyr Gln Gly Ser Thr Ala Asp Val Leu Gln Glu Ala
288 165 170 175
289 Asp Val Pro Leu Leu Ser Asn Glu Lys Cys Gln Gln Gln Met Pro Glu
290 180 185 190
291 Tyr Asn Ile Thr Glu Asn Met Val Cys Ala Gly Tyr Glu Ala Gly Gly
292 195 200 205
293 Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Met Cys Gln Glu
294 210 215 220
295 Asn Asn Arg Trp Leu Leu Ala Gly Val Thr Ser Phe Gly Tyr Gln Cys
296 225 230 235 240
297 Ala Leu Pro Asn Arg Pro Gly Val Tyr Ala Arg Val Pro Arg Phe Thr
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306 <211> LENGTH: 12
307 <212> TYPE: PRT
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/858,332A

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Input Set : D:\seqlist.txt

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